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MANUFACTURE OF LIQUID CRYSTAL DISPLAY BODY DEVICE

Patent Number: JP57088428

Publication date: 1982-06-02

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Applicant(s): RICOH ELEMEX CORP

Requested Patent: JP57088428

Application Number: JP19800164447 19801120

Priority Number(s):

IPC Classification: G02F1/13; G09F9/00

EC Classification:

Equivalents:

Abstract

PURPOSE: To inject a liquid crystal into a cell exactly in a short time, by dripping the liquid crystal from a dispenser to a trumpetlike liquid crystal injecting port of a liquid crystal cell placed in an airtight vessel kept in a vacuum state, and after that, pressurizing the inside of the vessel.

CONSTITUTION: A liquid crystal display body cell 6 whose substrate is made of a synthetic resin film having a trumpetlike liquid crystal injecting port 6A is placed in an airtight vessel 5, and in the upper direction of this cell 6, a dispenser tip part 12 having a small hole 12A is fixed to a work table 10 which can be rotated up and down and to the right and left. Subsequently, the inside of the vessel 5 is made to a vacuum state by opening a valve 13, the table 10 is moved and is controlled so that a distance between the injecting port 6A and the hole 12A of the tip part 12 becomes constant, and after that, from a liquid crystal vessel 8 which has been cut off from the open air, a liquid crystal 7 of a constant quantity is dripped into the injecting port 6A through a dispenser 9, a feed pipe 11, the tip part 12 and the hole 12A. Subsequently, the inside of the vessel 5 is returned to the atmospheric pressure by opening a valve 14, and the liquid crystal 7 is injected into the cell 6.

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状の液晶注入口 6A は液晶注入後必要に応じて切
断してもよい。

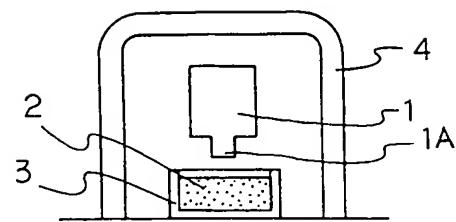
図面の簡単な説明

第1図は従来の液晶表示体セルへの液晶注入方法
を説明する為の断面図。

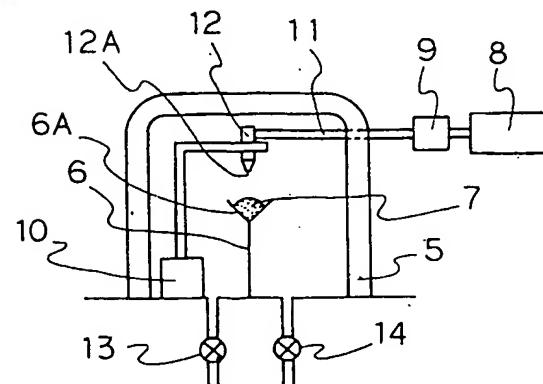
第2、3図は本発明の実施例を示す断面図。

1 … 液晶表示体セル 1A … 液晶注入口 2 … 液晶
3 … 液晶充填容器 4 … 気密容器
5 … 気密容器 6 … 液晶表示体セル 6A … 液晶注
入口 7 … 液晶 8 … 液晶容器 9 … ディスペン
サー 10 … 作業台 11 … 液晶輸送管 12 … ディス
ペンサー先端部 12A … 穴 13 … バルブ 14 … バル
ブ

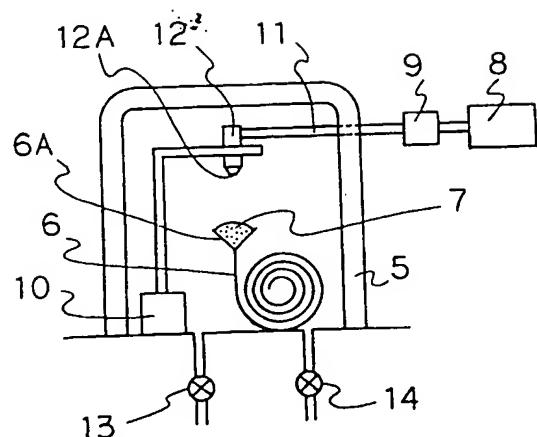
特許出願人の名称 リコー時計株式会社



第1図



第2図



第3図